

Cal/Ecotox

Exposure Factors for Island Night Lizard (*Xantusia riversiana*)^{*}

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Endpoint Type	Endpoint Value	Error	Range	Units	Sex	Life Stage	Location	Note	Reference
Age at Sexual Maturity			3 - 4	yr	B	Adult	CA	a	1
Age at Sexual Maturity	2.9	0.2 SE		yr	F	Adult	CA	b	2
Age at Sexual Maturity	2.5	0.2 SE		yr	M	Adult	CA	c	2
Body Weight - Mean			14.1 - 17.3	g	B	Adult	CA	d	2
Body Weight - Mean			11.6 - 14.8	g	B	Adult	CA	e	3
Body Weight - Mean	BW = -0.26 + 0.000028(SVL) ³			g	B	Both Adult and Juv.	CA	f	2
Body Weight - Mean	1.01			g	NR	Hatching	CA	g	1
Body Weight - Mean			1.2 - 2.7	g	B	Neonate	CA	h	3
Clutch or Litter Size			3.50 - 4.55	young/female	F	Adult	CA	i	1
Clutch or Litter Size			4 - 6	young/female	F	Adult	CA	j	4
Clutch or Litter Size			6 - 9	young/female	F	Adult	CA	k	4
Clutch or Litter Size			3 - 4	young/female	F	Adult	CA	l	5
Clutch or Litter Size	review				F	Adult		m	6
Dietary Composition	Lizard skin (17); Unidentified arthropods (2); Spiders (11); Scorpions (2); Centipedes (2); Ticks (1); Isopods (17); Insects unidentified (26); Orthoptera (1); Homoptera (1); Hemiptera (3); Lepidoptera (5); Diptera (3); Coleoptera (19); Hymenoptera (25); Plants (44)			#	NR	NR	CA	n	7
Dietary Composition	Animals, Araneida (15.4%); Crustacea (Isopoda) (50%); Hemiptera (7.7%); Homoptera (15.4%); Coleoptera (11.5%); Lepidoptera (11.5%); Diptera (11.5%); Hymenoptera (7.7%); Other insecta (23.1%); Other arthropoda (15.4%); Vertebrata (3.8%); Plants, Aizoaceae (3.8%); Chenopodiaceae (15.4%); Solanaceae (7.7%); Asteraceae (3.8%); Other plants (38.5%)			%	NR	NR	CA	o	2
Dietary Composition	Animal matter (68.8%), includes Arachnids (15.9%); Insects (50.4%); Crustaceans (2.6%); Plant matter (30.9%)			%	NR	NR	CA	p	8
Duration of Incubation or Gestation	14			wks	NR	Embryo	CA	q	1
Growth Rate	0.05			mm/d	B		CA	r	3
Growth Rate	0.03			mm/d	B		CA	s	3
Growth Rate	0.011	0.002 SE		mm/d	NR		CA	t	2
Growth Rate	0.018	0.002 SE		mm/d	NR		CA	u	2

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Growth Rate	0.005	0.004 SE		mm/d	NR		CA	v	2
Growth Rate	0.030	0.002 SE		mm/d	NR		CA	w	2
Growth Rate	0.040	0.003 SE		mm/d	NR		CA	x	2
Growth Rate	0.046	0.003 SE		mm/d	NR		CA	y	2
Growth Rate	0.022	0.002 SE		mm/d	NR		CA	z	2
Home Range	17.2		6.6 - 29.0	m ²	B	Adult	CA	aa	2
Longevity	13.4			yr	B	Adult	CA	ab	2
Longevity			12 - 13	yr	B	Adult	CA	ac	3
Metabolic Rate	0.025 (15C); 0.035 (20C); 0.070 (25C); 0.105 (30C); 0.160 (35C)			cc O ₂ /g/hr	NR	Adult	Lab	ad	9
Metabolic Rate	0.024 (15C); 0.036 (20C); 0.058 (25C); 0.081 (30C); 0.146 (35C)			cc O ₂ /g/hr	NR	Adult	Lab	ae	9
Population Density	1458	103 SE		#/ha	B	Both Adult and Juv.	CA	af	3
Population Density			1665 - 3213	#/ha	NR	NR	CA	ag	2
Time of Hatching or Parturition	Sept.				NR	Hatching	CA	ah	1
Time of Mating/ Laying	Mar. - June				B	Adult	CA	ai	1

Notes

- a N=NR; San Clemente, San Nicolas and Santa Barbara Islands
- b N=NR; Santa Barbara Island; snout-vent length = 70mm
- c N=NR; Santa Barbara Island; snout-vent length = 65mm
- d range of average male and average female weights; N=258; Condition=non-pregnant; Santa Barbara Island; snout-vent length >70 mm
- e N=NR; winter and summer; San Clemente Island
- f lizard body weight (BW; g) as an exponential function of snout-vent length (SVL,mm); N=792; Condition=non-pregnant; Santa Barbara Island; see citation for figure of seasonal changes in mass gain
- g N=15; Age=at birth; San Clemente, San Nicolas and Santa Barbara Islands; snout-vent length = 34mm
- h N=NR; winter and summer; San Clemente Island
- i range of average number of young produced/female at 3 sites; N=2-25; San Clemente, San Nicolas and Santa Barbara Islands
- j determined by embryo count; N=5; June - Aug.; San Clemente Island
- k determined by embryo count; N=4; July; San Nicolas Island
- l determined from fetus count; N=2; Sept.; San Nicolas Island
- m N= NR
- n number of individuals in which a particular item was found in stomach contents; N=91; San Nicolas, Santa Barbara and San Clemente Islands; see citation for family-level list of prey items
- o % of samples with item in stomach contents; N=26; Santa Barbara Island; total samples with animal items (73.1%) and plant items (42.3%); see citation for fecal matter content
- p % of total content of stomachs; N=18; Aug.; San Clemente Island
- q N=NR; San Clemente, San Nicolas and Santa Barbara Islands
- r increase in snout-vent length during 1st yr; N=14; Age=0-1 yr; San Clemente Island
- s increase in snout-vent length during 2nd yr; N=12; Age=1-2 yr; San Clemente Island
- t increase in snout-vent length (80-90 mm size class); N=NR; Age=6.9 yr; Santa Barbara Island
- u increase in snout-vent length (70-80 mm size class); N=NR; Age=4.5 yr; Santa Barbara Island
- v increase in snout-vent length (90-100 mm size class); N=NR; Age=12.4 yr; Santa Barbara Island
- w increase in snout-vent length (60-70 mm size class); N=NR; Age=2.9 yr; Santa Barbara Island
- x increase in snout-vent length (50-60 mm size class); N=NR; Age=2.0 yr; Santa Barbara Island
- y increase in snout-vent length (40-50 mm size class); N=NR; Age=1.3 yr; Santa Barbara Island
- z increase in snout-vent length (34-40 mm size class); N=NR; Age=0.8 yr; Santa Barbara Island
- aa N=6; Santa Barbara Island; snout-vent length = 74-94 mm; see citation for habitat utilization data
- ab estimated from largest lizard (snout-vent length, 102.5 mm)and known growth rates; N=NR; Santa Barbara Island
- ac oldest recorded individual; N=NR; San Clemente Island

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ad mean oxygen consumption measured at various temperatures (15-35C) during the photophase of the diel cycle; N=10-29/temp. group; see citation for figure of relationship between oxygen consumption and body weight
ae mean oxygen consumption measured at various temperatures (15-35C) during the scotophase of the diel cycle; N=10-29/temp. group; see citation for figure of relationship between oxygen consumption and body weight
af N=120 marked animals; San Clemente Island; see citation for distances moved after recapturing
ag N=NR; Santa Barbara Island
ah N=NR; San Clemente, San Nicolas and Santa Barbara Islands
ai time of breeding; N=NR; San Clemente, San Nicolas and Santa Barbara Islands

References

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